

Drawings

Fig. 1

DOE designing by FFT (Prior Art)

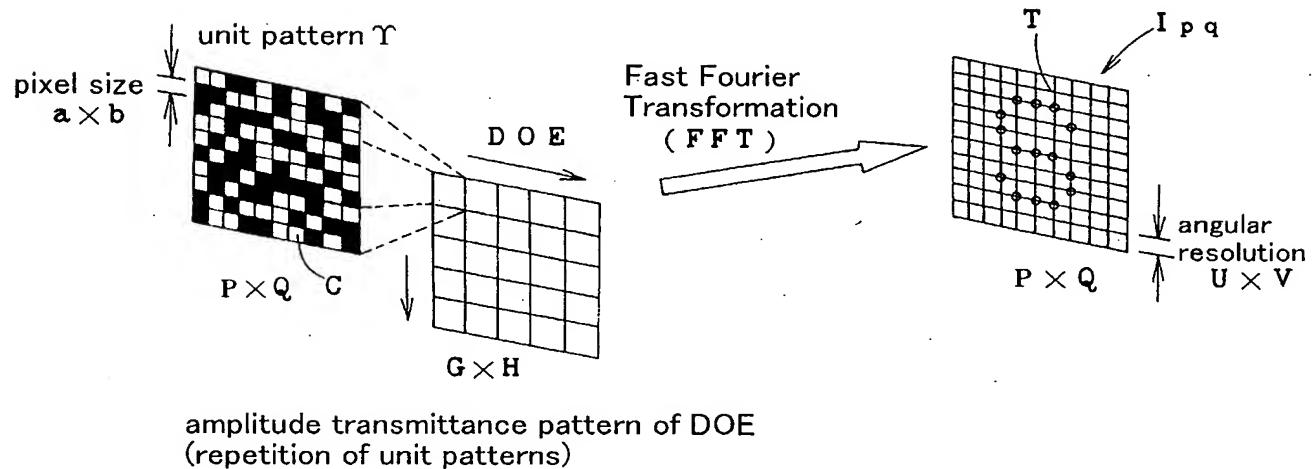
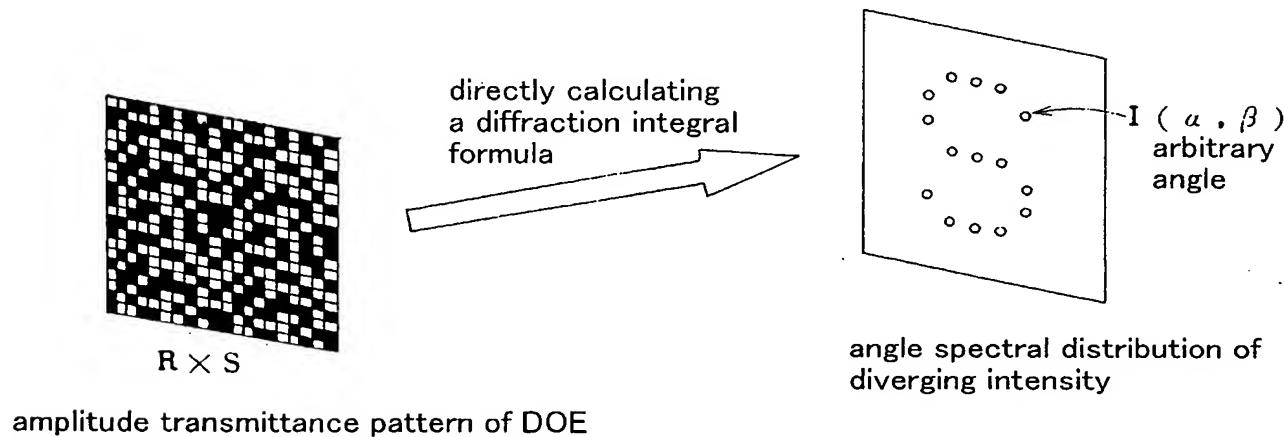


Fig. 2

DOE designing (the present invention)



amplitude transmittance pattern of DOE
(non-repetition of unit patterns)

Fig. 3

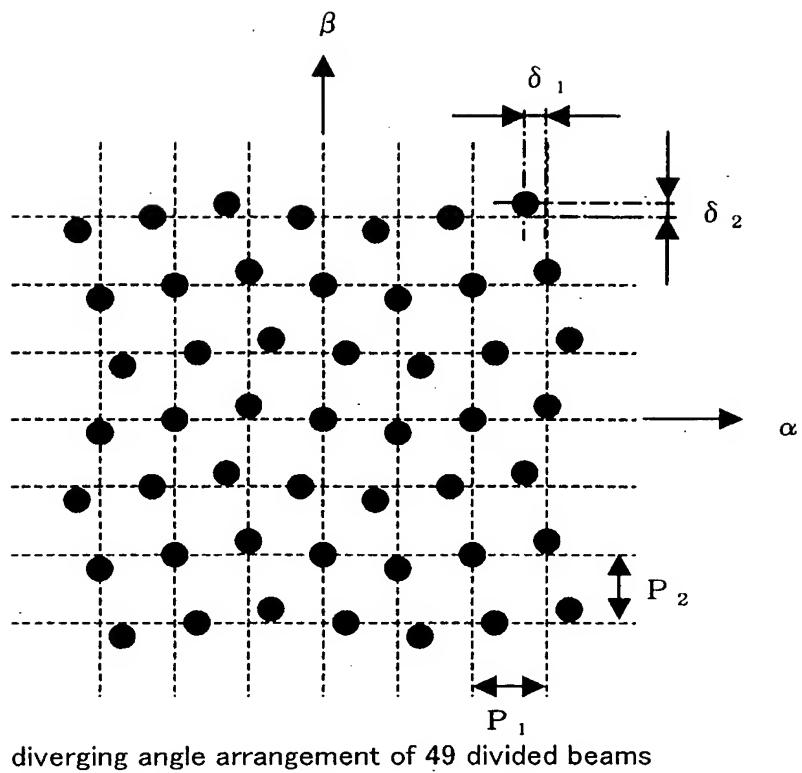
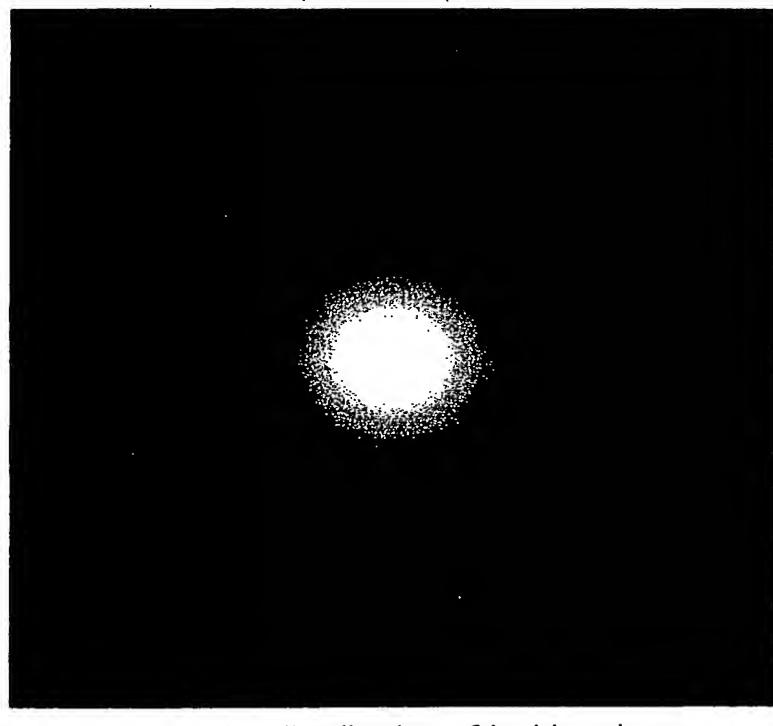
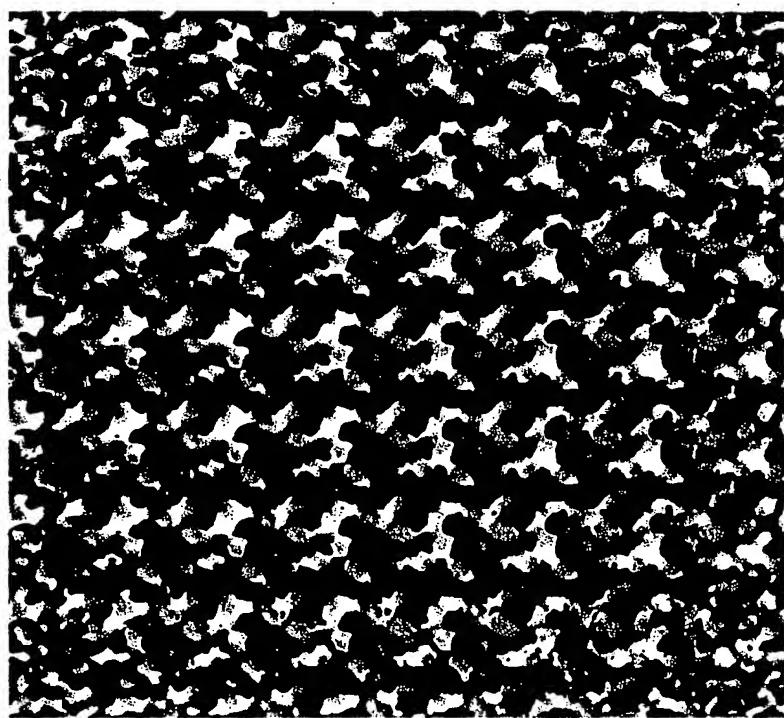


Fig. 4



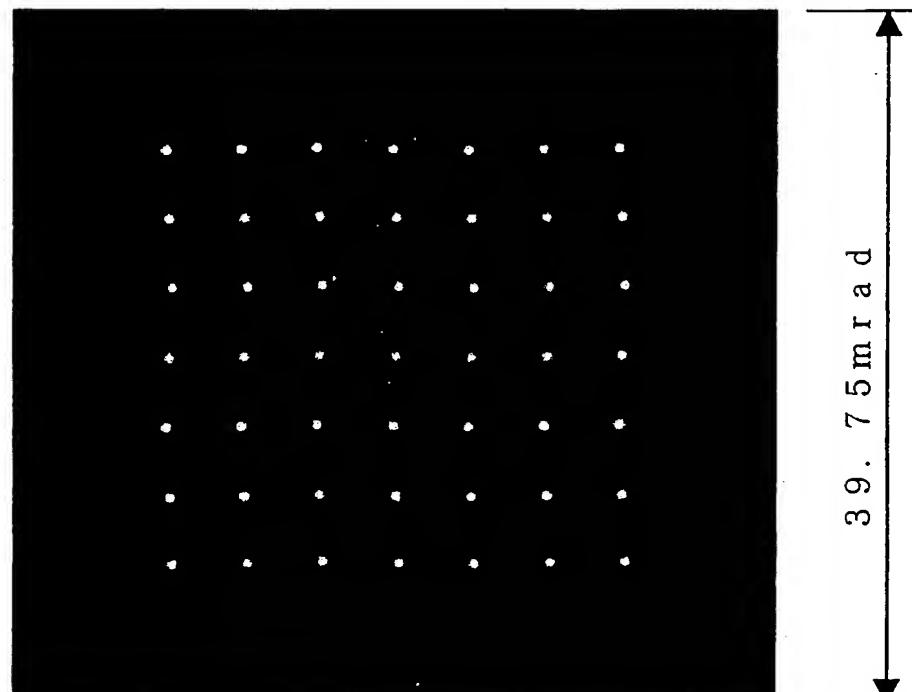
intensity distribution of incident beam

Fig. 5



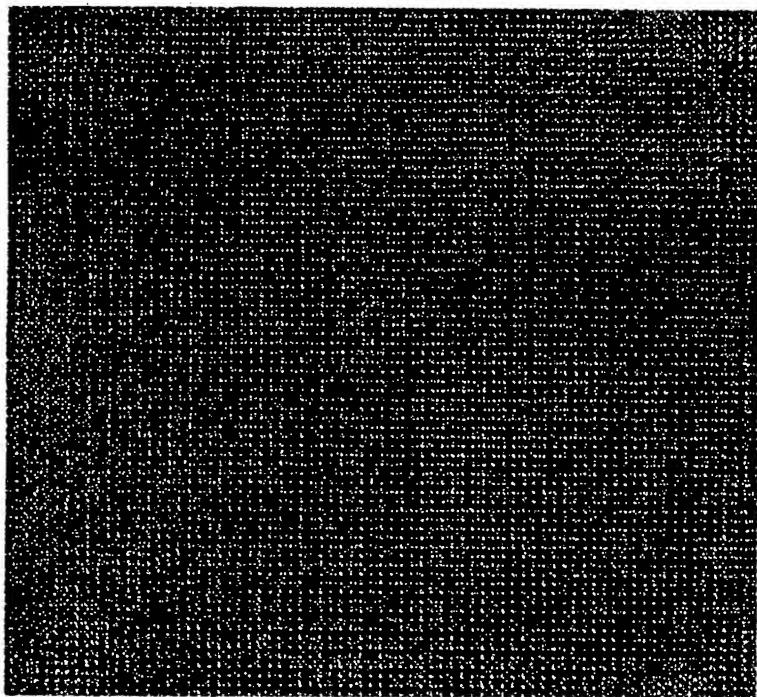
designed pattern of DOE of Embodiment 1

Fig. 6



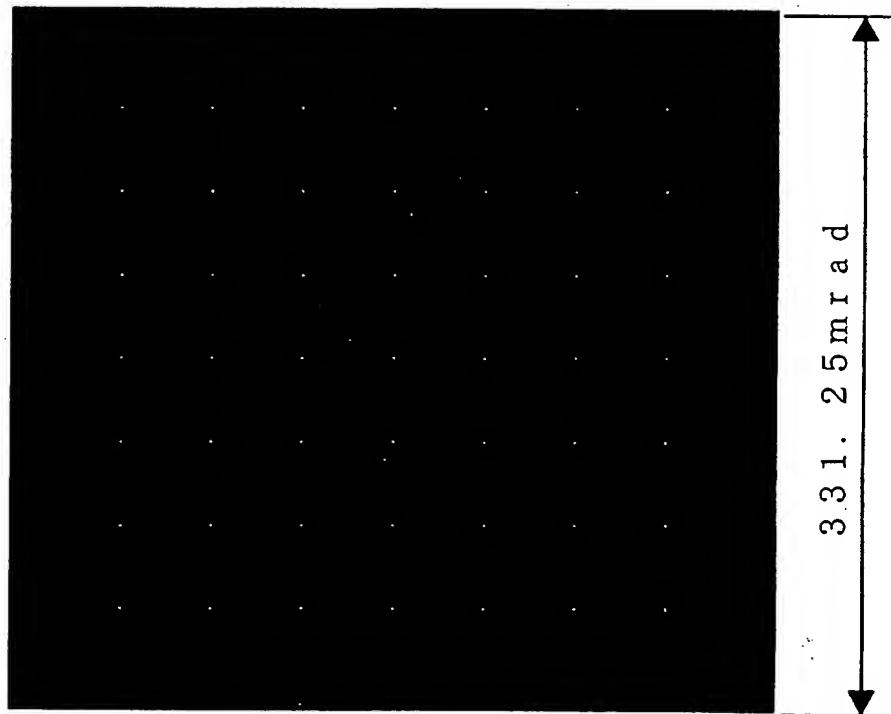
angle spectrum intensity distribution of Embodiment 1

Fig. 7



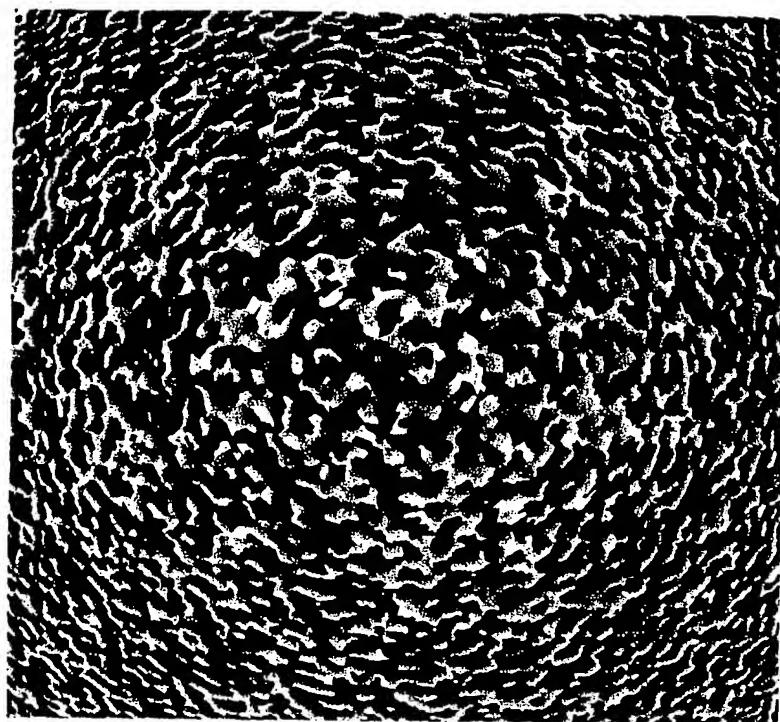
designed pattern of DOE of Embodiment 2

Fig. 8



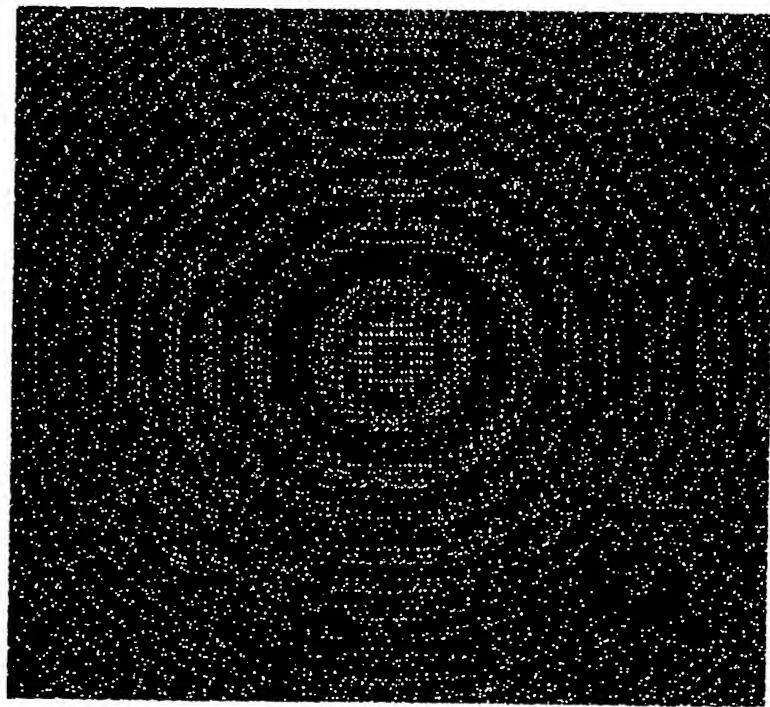
angle spectrum intensity distribution of Embodiment 2

Fig. 9



DOE pattern of Embodiment 3

Fig. 10



DOE pattern of Embodiment 4